

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

JUL 03 2006

102

Substitute for form 1449/Rev. 10-2002

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 6

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/763,545 |
| Filing Date | January 23, 2004 |
| First Named Inventor | William C. Olson |
| Art Unit | 1648 |
| Examiner Name | Peng, Bo |
| Attorney Docket Number | 57906-BA |

| U. S. PATENT DOCUMENTS | | | | |
|------------------------|-----------------------|--|--------------------------------|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
| | | Number-Kind Code ² (if known) | | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US- 6,025,154 | 10-05-2004 | Y. Li et al. |
| | | US- 6,265,184 | 07-24-2001 | P.W. Gray et al. |
| | | US- 6,268,477 | 06-30-2002 | P.W. Gray et al. |
| | | US- 6,448,375 | 09-10-2002 | M. Samson et al. |
| | | US- 6,743,594 | 06-01-2004 | Y. Li et al. |
| | | US- 6,797,811 | 09-28-2004 | P.W. Gray et al. |
| | | US- 6,972,126 | 12-06-2005 | G.P. Allaway et al. |
| | | US- 6,261,763 | 07-17-2001 | G.P. Allaway et al. |
| | | US- 2002-0150888 | 10-17-2002 | P.W. Gray et al. |
| | | US- 2004-0161739 | 08-19-2004 | M. Samson et al. |
| | | US- 2004-0230037 | 11-18-2004 | P.W. Gray et al. |
| | | US- 2004-0110127 | 06-10-2004 | M. Samson et al. |
| | | US- 2005-0154193 | 07-14-2005 | V. Roschke et al. |
| | | US- 2003-0100058 | 05-29-2003 | V. Roschke et al. |
| | | US- 2003-0166024 | 09-04-2003 | C. Rosen et al. |
| | | US- 2004-0151719 | 08-08-2004 | Y. Li et al. |
| | | US- 2001-0000241 | 04-12-2001 | Y. Li et al. |
| | | US- 2001-0046512 | 11-29-2001 | V. Litwin et al. |
| | | US- 2006-0029932 | 02-09-2006 | G.P. Allaway et al. |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | | WO 95/16789 | 06-22-1995 | | | |
| | | WO 02/064612 A2 | 08-22-2002 | | | |
| | | WO 01/58915 A2 | 08-16-2001 | | | |
| | | WO 01/58916 A2 | 08-16-2001 | | | |
| | | WO 96/39437 A2 | 12-12-1996 | | | |
| | | WO 97/22698 | 06-26-1997 | | | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Applicants: William C. Olson and Paul J. Maddon
Serial No.: 10/763,545
Filed: January 23, 2004
Exhibit A

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/763,545 |
| Filing Date | January 23, 2004 |
| First Named Inventor | William C. Olson |
| Art Unit | 1648 |
| Examiner Name | Peng, Bo |
| Attorney Docket Number | 57906-BA |

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------------|---|------------------|---|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | MM-DD-YYYY | | T ⁶ |
| | | WO 97/44055 | 11-27-1997 | | |
| | | WO 97/032019 | 09-04-1997 | | |
| | | EP 96870021.1 | 03-01-1996 | | |
| | | EP 96870102.9 | 08-06-1996 | | |
| | | EP 1145721 A2 | 10-17-2001 | | |
| | | EP 1146055 A2 | 10-17-2002 | | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3

of 6

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/763,545 |
| Filing Date | January 23, 2004 |
| First Named Inventor | William C. Olson |
| Art Unit | 1648 |
| Examiner Name | Peng, Bo |
| Attorney Docket Number | 57906-BA |

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | | EP 1146122 A2 | 10-17-2001 | | | |
| | | EP 1148126 A2 | 10-24-2001 | | | |
| | | EP 1148127 A2 | 10-24-2001 | | | |
| | | EP 1149582 A2 | 10-31-2001 | | | |
| | | EP 1199360 A2 | 04-24-2002 | | | |
| | | EP 1482042 A1 | 12-01-2004 | | | |

Examiner Signature _____ **Date Considered** _____

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTQ

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/763,545 |
| Filing Date | January 23, 2004 |
| First Named Inventor | William C. Olson |
| Art Unit | 1648 |
| Examiner Name | Peng, Bo |
| Attorney Docket Number | 57906-BA |

Sheet 4

of 6

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature _____ **Date Considered** _____

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|---|--------------------------|------------------|
| Substitute for form 1449/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | 10/763,545 |
| | | | | Filing Date | January 23, 2004 |
| | | | | First Named Inventor | William C. Olson |
| | | | | Art Unit | 1648 |
| | | | | Examiner Name | Peng, Bo |
| Sheet | 5 | of | 6 | Attorney Docket Number | 57906-BA |

| NON PATENT LITERATURE DOCUMENTS | | | | |
|--|-----------------------|---|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | T ² |
| | | Dean, M. et al., (1996) "Genetic Restriction Of HIV-1 Infection And Progression To AIDS By A Deletion Allele Of The CKR5 Structural Gene", Science 273:1856-1862 | | |
| | | He, J. et al., (1997) "CCR3 And CCR5 Are Co-Receptors For HIV-1 Infection Of Microglia", Nature 385:645-649 | | |
| | | Konigs, C. et al., (2000) "Monoclonal Antibody Screening Of Phage-Displayed Random Peptide Library Reveals Mimotopes Of Chemokine Receptor CCR5: Implications For The | | |
| | | Tertiary Structure Of The Receptor And For An N-Terminal Binding Site For HIV-1 Gp120", Eur. J. Immunol. 30(4):1162-1171 | | |
| | | Lee, B. et al., (1999) "Epitope Mapping Of CCR5 Reveals Multiple Conformational States And Distinct But Overlapping | | |
| | | Structures Involved In Chemokine Coreceptor Function", J. Biol. Chem. 274 (14):9617-9626 | | |
| | | Mackay, C.R., (1996) "Chemokine Receptors And T Cell Chemotaxis", J. Exp. Med 184:799-802 | | |
| | | Raport, C.J. et al., (1996) "Molecular Cloning And Functional Characterization Of A Novel Human CC Chemokine Receptor (CCR5) For RANTES, MIP-1beta, And MIP-1alpha", J.Biol. Chem. 271(29):1761-17166 | | |
| | | Samson, M. et al., (1996) "Molecular Cloning And Functional Expression Of A New Human CC-Chemokine Receptor Gene", Biochem. 35:3362-3367 | | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | | |
|--|------------------|----|---|------------------------|-------------------|--|
| Substitute for form 1449/PTO | | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | | |
| (Use as many sheets as necessary) | | | | | | |
| Application Number | 10/763,545 | | | | | |
| Filing Date | January 23, 2004 | | | | | |
| First Named Inventor | William C. Olson | | | | | |
| Art Unit | 1648 | | | | | |
| Examiner Name | Peng, Bo | | | | | |
| Sheet | 6 | of | 6 | Attorney Docket Number | 57906-BA | |

NON PATENT LITERATURE DOCUMENTS

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.